

**KANSAS DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION TO THE
STANDARD SPECIFICATIONS, 2007 EDITION**

SECTION 715

PRESTRESSED CONCRETE MEMBERS

Page 700-68, subsection 715.2. Delete "Wire Mesh" and replace with "Welded Steel Wire Fabric" throughout the subsection.

Page 700-68, subsection 715.2. Third paragraph, second sentence, change "ASTM A 153" to "ASTM A 123".

Page 700-68, subsection 715.3a. Delete the second sentence and replace with the following:

With the exception of prestressed piles, which do not require drawings, do not perform any production until the approved shop drawings are in the hands of the Inspector and producer, and the Engineer has authorized production.

Page 700-71, delete subsection 715.3c.(2) and replace with the following:

(2) Reinforcement. Prior to concrete placement, install reinforcing bars as shown in the Contract Documents, and rigidly secure them to prevent movement during placement of the concrete. Welding of reinforcing steel cages is prohibited.

Substituting deformed welded steel wire fabric in prestressed beams for reinforcing bars is acceptable, provided the spacing of the wires is less than or equal to the spacing shown in the plans, and the area of steel per foot is equivalent or greater than the reinforcing bars shown in the plans. Use the table shown in the plans for area of steel equivalences. Higher yield strength welded steel wire fabric is allowed, but will not change the equivalences.

Accurately position steel strand within the tolerances specified in the Contract Documents. Rigidly secure the strand so it shall be retained in the specified locations. The minimum horizontal spacing, center to center of strands at the ends, is 2 inches. Install supports to prevent dead load sag. The roller size on the holddown device must match the strand size used. Provide strand supports as shown in the Contract Documents that consist of a device with freely turning rollers a minimum of $\frac{7}{8}$ inch in diameter at each deflection point. A yoke type device may be used for top depressing of strands when approved by the Engineer. The prestress force and center of gravity must be as shown in the Contract Documents.

Perform tensioning and elongation according to the Contract Documents. No tensioning of strands or placement of concrete will be permitted when the ambient air temperature is below 20°F. At the option of the Engineer, strand shall be brought to within 25°F of the concrete at placement in lieu of corrections in elongation due to temperature. The Engineer may use suitable equipment to determine if the strand tension is proper throughout the entire bed length. Make corrections as required.

Page 700-72, subsection 715.3c.(3). Delete the third paragraph and replace with the following:

Unless shown otherwise in the Contract Documents, use Type I, Type IP, Type I(PM) or Type II portland cement to manufacture the units. Type III cement may be used for beams (if they are to be covered by a reinforced wearing surface) and piling. Only use cement from prequalified sources. The producer's certification must be available at the prestress plant for review by the Engineer.

Page 700-75, subsection 715.3d.(3)(b)(iv). Delete the second bullet and replace with the following:

- a second of any 10 consecutive manufactured cylinder sets attains an average compressive strength below the specified minimum 28 day strength by no more than 5% or 300 psi, whichever is less.